

FOUO 20-62201660

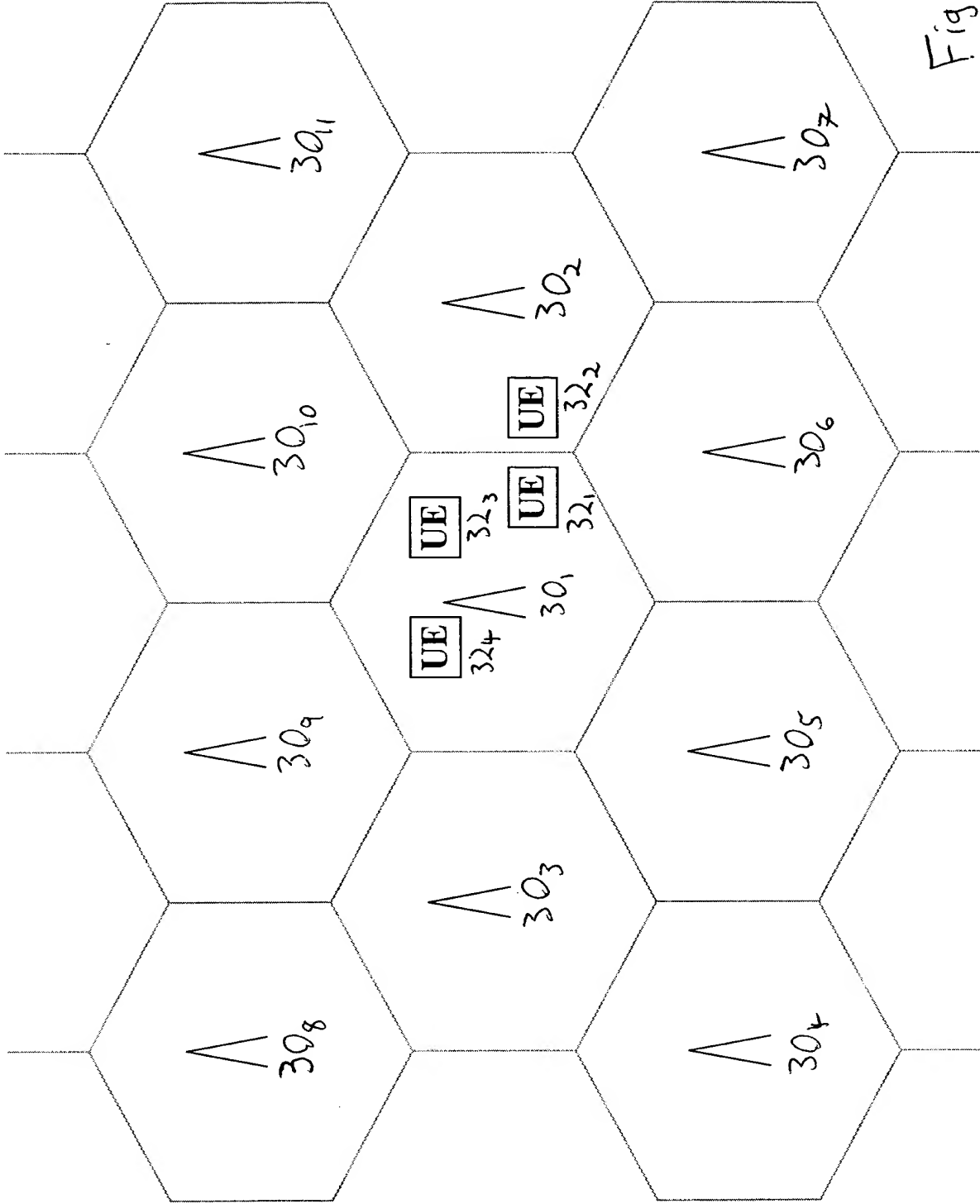


Fig. 1

JC879 U.S. PTO
09/910329



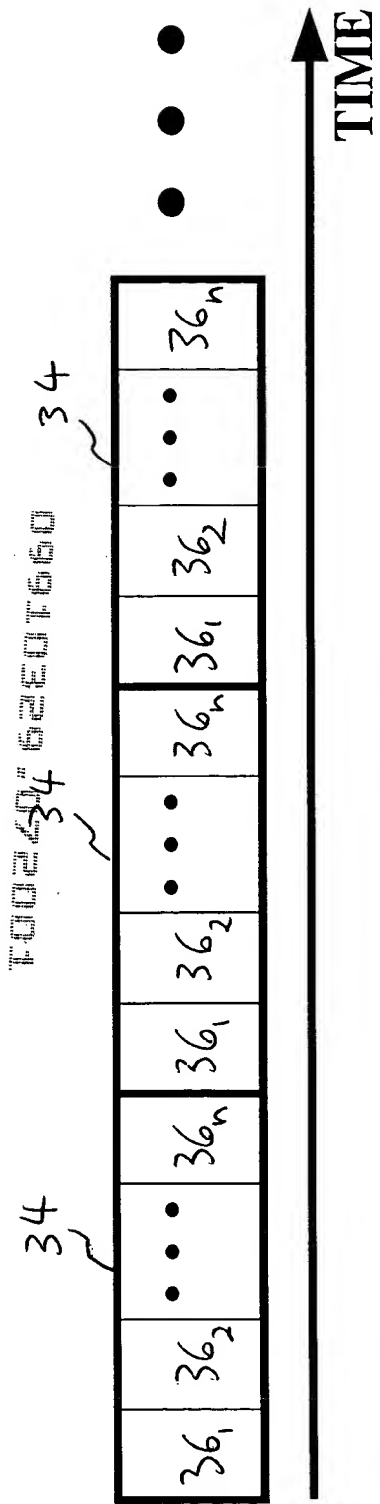


Fig. 2

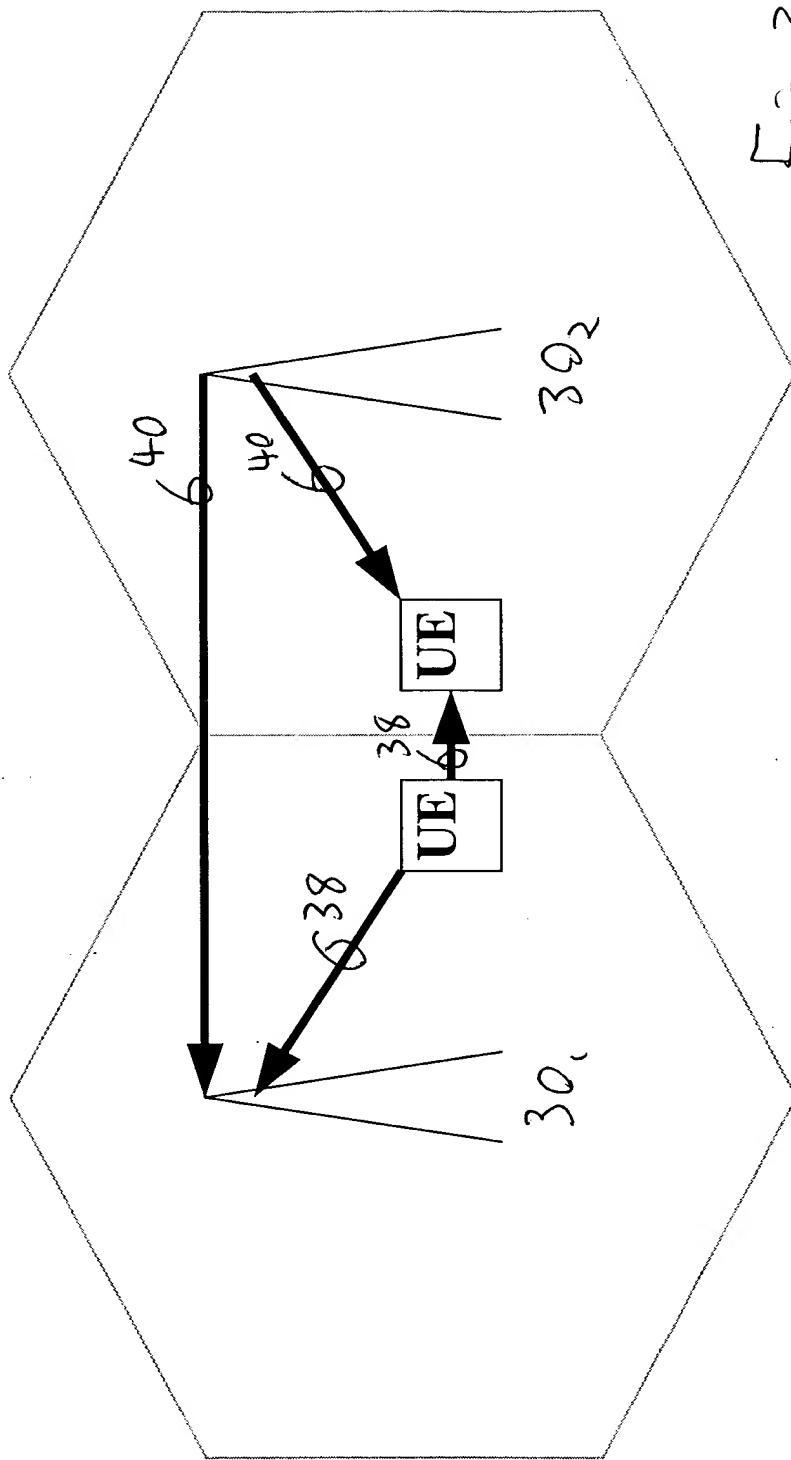


Fig. 3

09910329.072004

~ 76

AVAILABILITY LIST				
CELL (UPLINK/DOWNLINK)	TIME SLOT AVAILABILITY			
	S1	S2	...	SN
1 (UPLINK)	X	X	...	
1 (DOWNLINK)		X	...	X
2 (UPLINK)	X	X	...	
2 (DOWNLINK)			...	X

N (UPLINK)	X	X	...	
N (DOWNLINK)		X	...	X

Fig. 4

FIG. 5

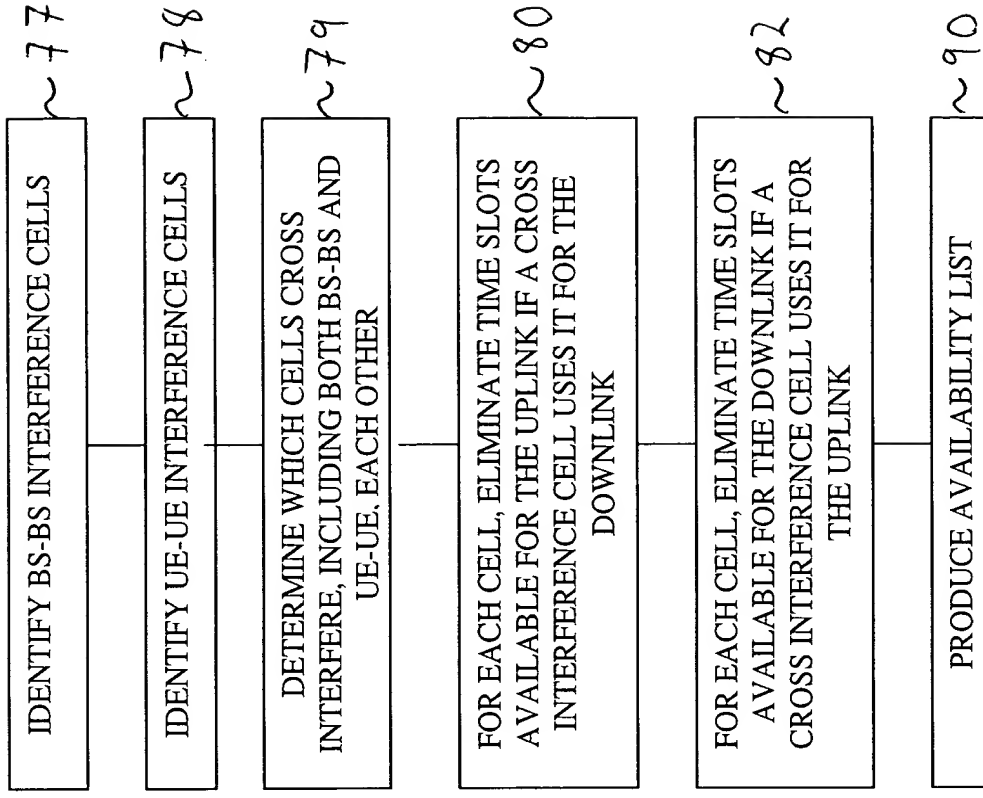


Fig. 5

~ 84

CROSS INTERFERENCE CELL LIST											
CELL	POTENTIAL CROSS INTERFERRING CELLS										
	1	2	3	4	5	6	7	8	9	10	11
1	X	I	I		I	I*			I	I	
2	I	X				I	I			I	I
3	I		X	I	I*			I	I		
4			I	X	I						
5	I		I*	I	X	I					
6	I*	I			I	X	I				
7		I				I	X				
8			I					X	I		
9	I		I					I	X	I	
10	I	I							I	X	I
11		I								I	X

CELL 1

~ 86 Fig. 6

TIME SLOT ALLOCATION PER CELL															
CELL	TIME SLOT ALLOCATION														
	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15
1			D	U											
2	D	D							U						
3				U	D										
4										D	D				
5			D											U	
6						D									U
7										D					
8										D	D				
9						D	U								
10			D	U											
11										D	D	D	D		U

~ 88 Fig. 7

AVAILABILITY LIST FOR CELL 1																
CELL (UPLINK/DOWNLINK)	TIME SLOT AVAILABILITY															
	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	
1 (UPLINK)	X	X	X		X	X										
1 (DOWNLINK)				X			X		X					X	X	

Fig. 8

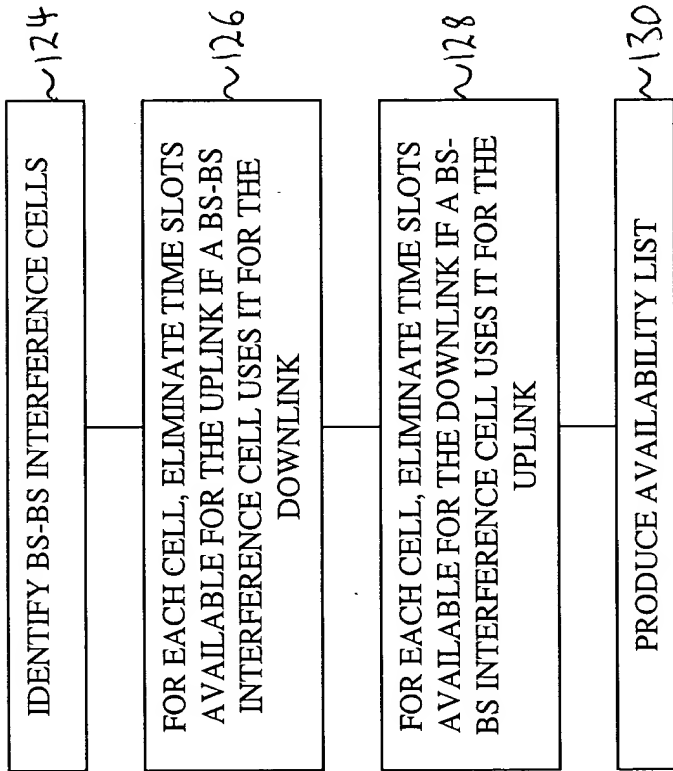


Fig. 9

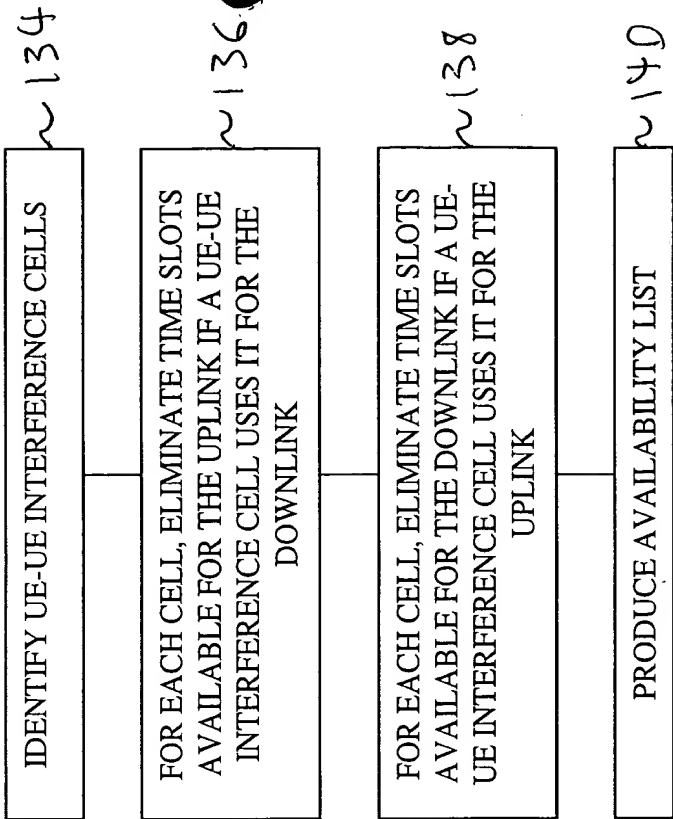


Fig. 11

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BS-BS CROSS INTERFERENCE CELL LIST											
CELL	POTENTIAL CROSS INTERFERRING CELLS										
	1	2	3	4	5	6	7	8	9	10	11
1	X	I	I		I				I	I	
2	I	X				I	I			I	I
3	I		X	I				I	I		
4			I	X	I						
5	I			I	X	I					
6		I			I	X	I				
7		I				I	X				
8			I					X	I		
9	I		I					I	X	I	
10	I	I							I	X	I
11		I								I	X

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Fig. 10

UE-UE CROSS INTERFERENCE CELL LIST											
CELL	POTENTIAL CROSS INTERFERRING CELLS										
	1	2	3	4	5	6	7	8	9	10	11
1	X	I*	I*		I*	I*			I*	I*	
2	I*	X				I*	I*			I*	I*
3	I*		X	I*	I*			I*	I*		
4			I*	X	I*						
5	I*		I*	I*	X	I*					
6	I*	I*			I*	X	I*				
7		I*				I*	X				
8			I*					X	I*		
9	I*		I*					I*	X	I*	
10	I*	I*							I*	X	I*
11		I*								I*	X

Fig. 12

MEASURE THE INTERFERENCE LEVEL IN EACH TIME SLOT AT THE BASE STATION

~144

MEASURE THE INTERFERENCE LEVEL IN EACH TIME SLOT AT EACH UE

~146

FOR THE UPLINK, ELIMINATE TIME SLOTS WHERE THE INTERFERENCE MEASURED AT THE BASE STATION EXCEEDS A THRESHOLD

~148

FOR EACH UE, ELIMINATE TIME SLOTS AVAILABLE FOR THE DOWNLINK IF THAT UE'S INTERFERENCE MEASUREMENT IN THAT CELL EXCEEDS A THRESHOLD

~150

PRODUCE UE SPECIFIC AVAILABILITY LIST

~152

MEASURE THE INTERFERENCE LEVEL IN EACH TIME SLOT AT THE BASE STATION

~144

MEASURE THE INTERFERENCE LEVEL IN EACH TIME SLOT AT EACH UE

~146

FOR THE UPLINK, ELIMINATE TIME SLOTS WHERE THE INTERFERENCE MEASURED AT THE BASE STATION EXCEEDS A THRESHOLD

~148

FOR EACH UE, ELIMINATE TIME SLOTS AVAILABLE FOR THE DOWNLINK IF ANY UE'S INTERFERENCE MEASUREMENT IN THAT CELL EXCEEDS A THRESHOLD

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PRODUCE AVAILABILITY LIST

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Fig. 13

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Fig. 14

AVAILABILITY LIST FOR CELL N															
UE IN CELL N (UPLINK/DOWNLINK)	TIME SLOT AVAILABILITY														
	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15
	X	X					X								
UE 1 (DOWNLINK)			X						X					X	X
UE 2 (DOWNLINK)									X						X
...															
UE N (DOWNLINK)						X	X	X	X						X

Fig. 15

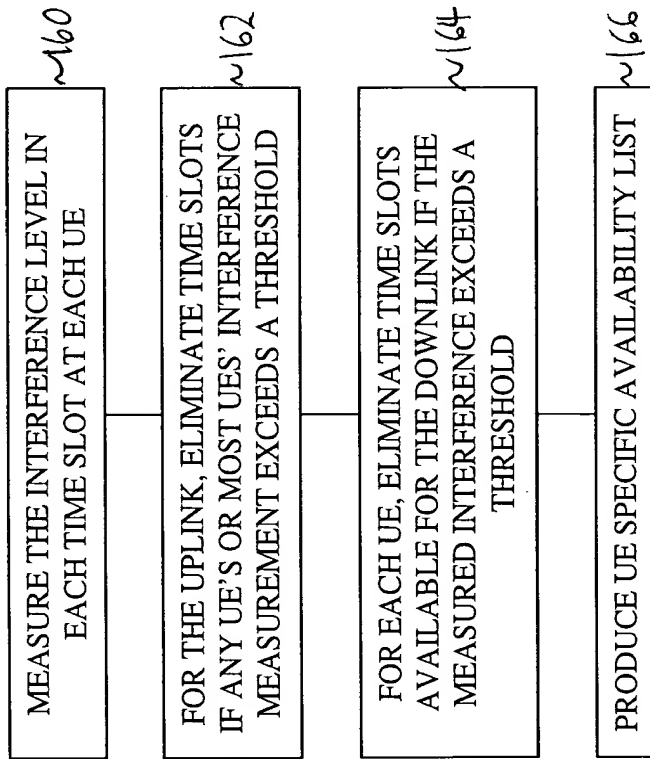


Fig. 16

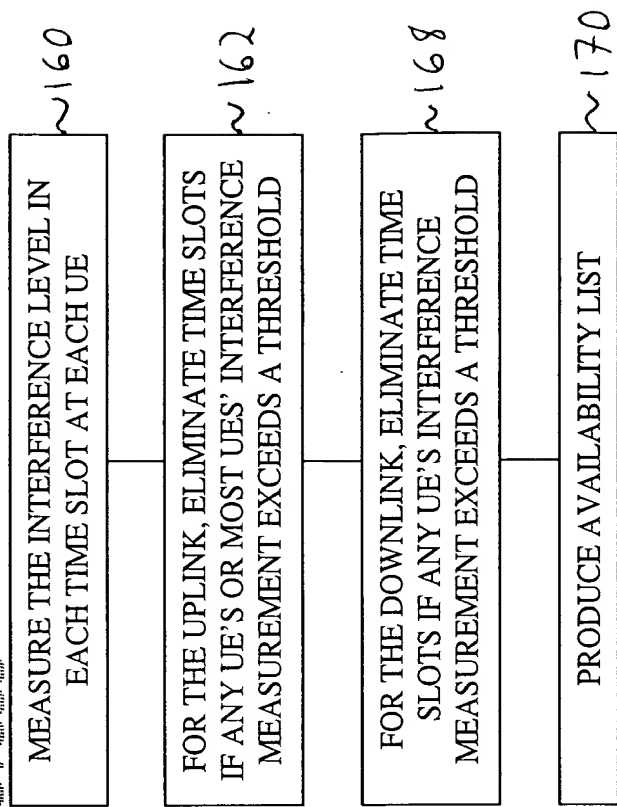


Fig. 17

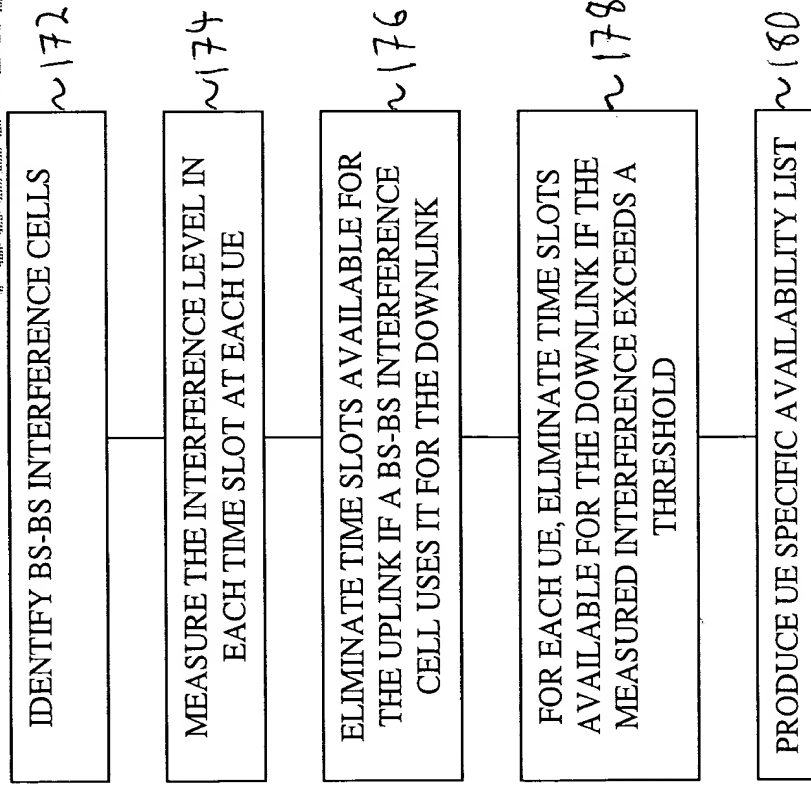


Fig. 18

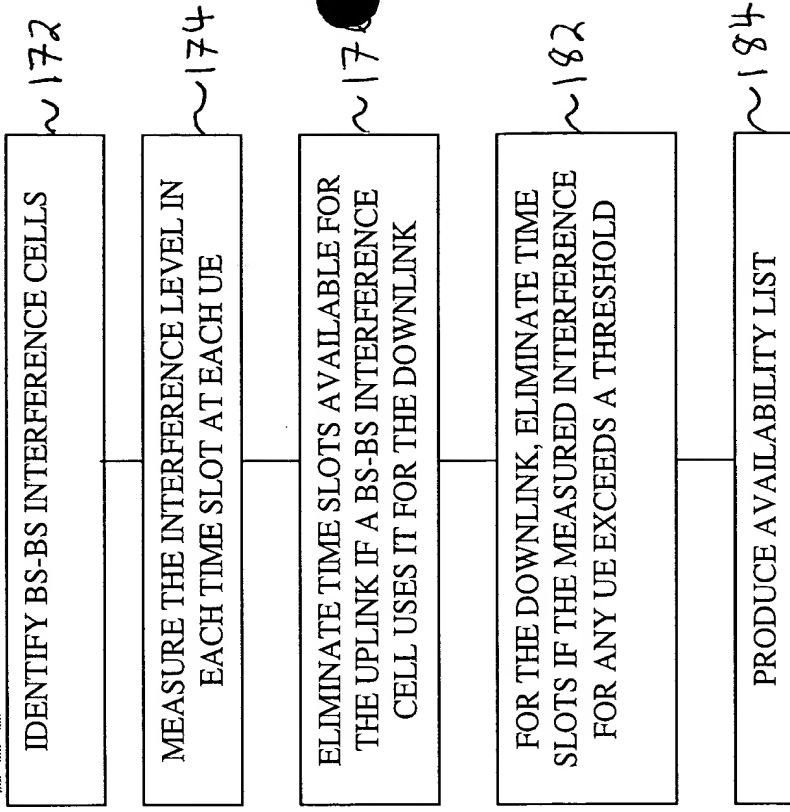


Fig. 19

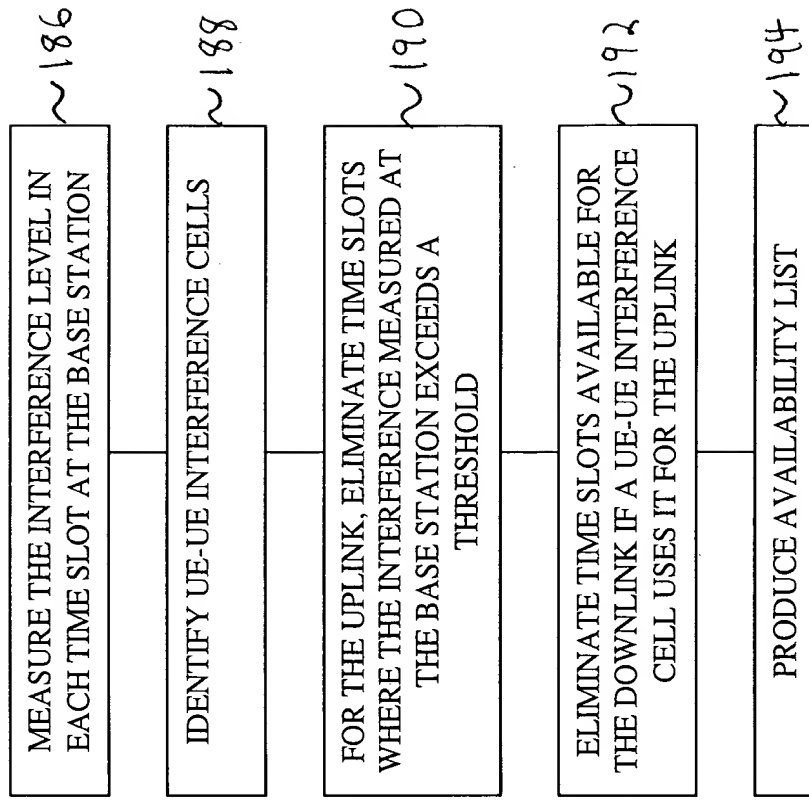


Fig. 20

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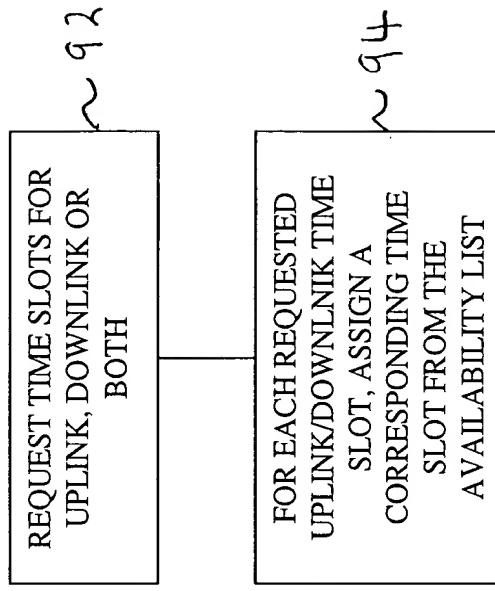


Fig. 21

109910329.072001

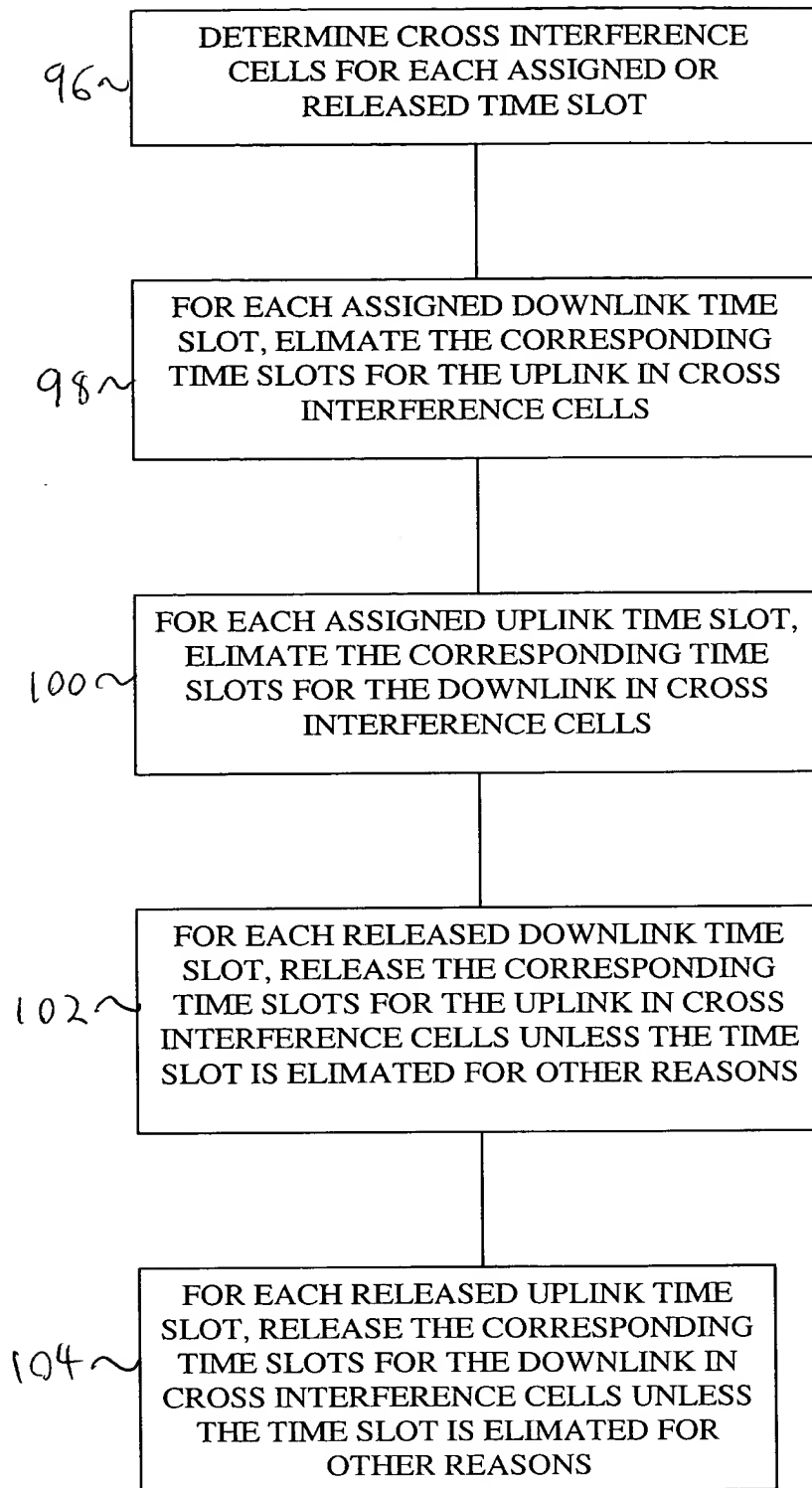


Fig. 22

FIG. 25

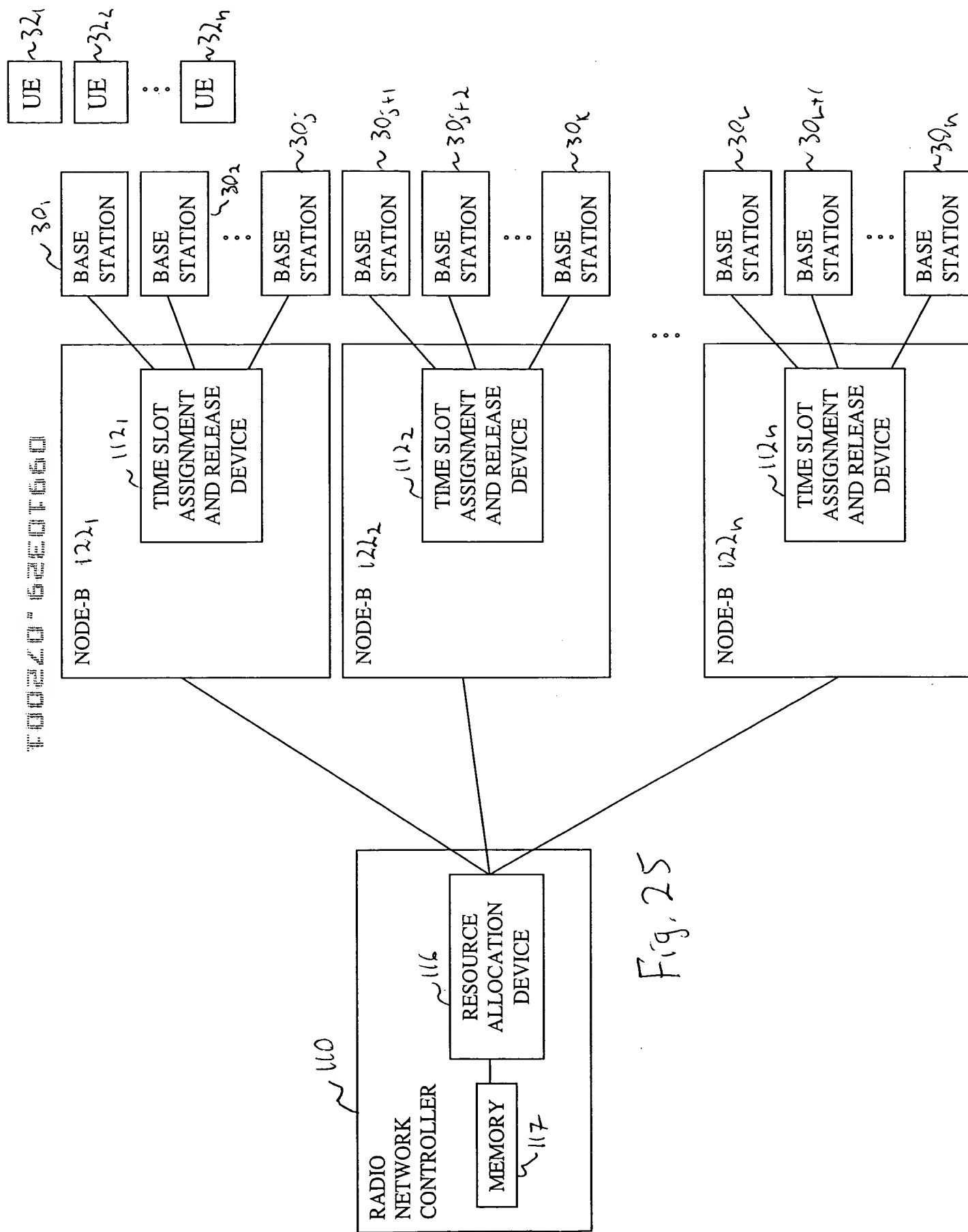


Fig. 25

FIG. 26

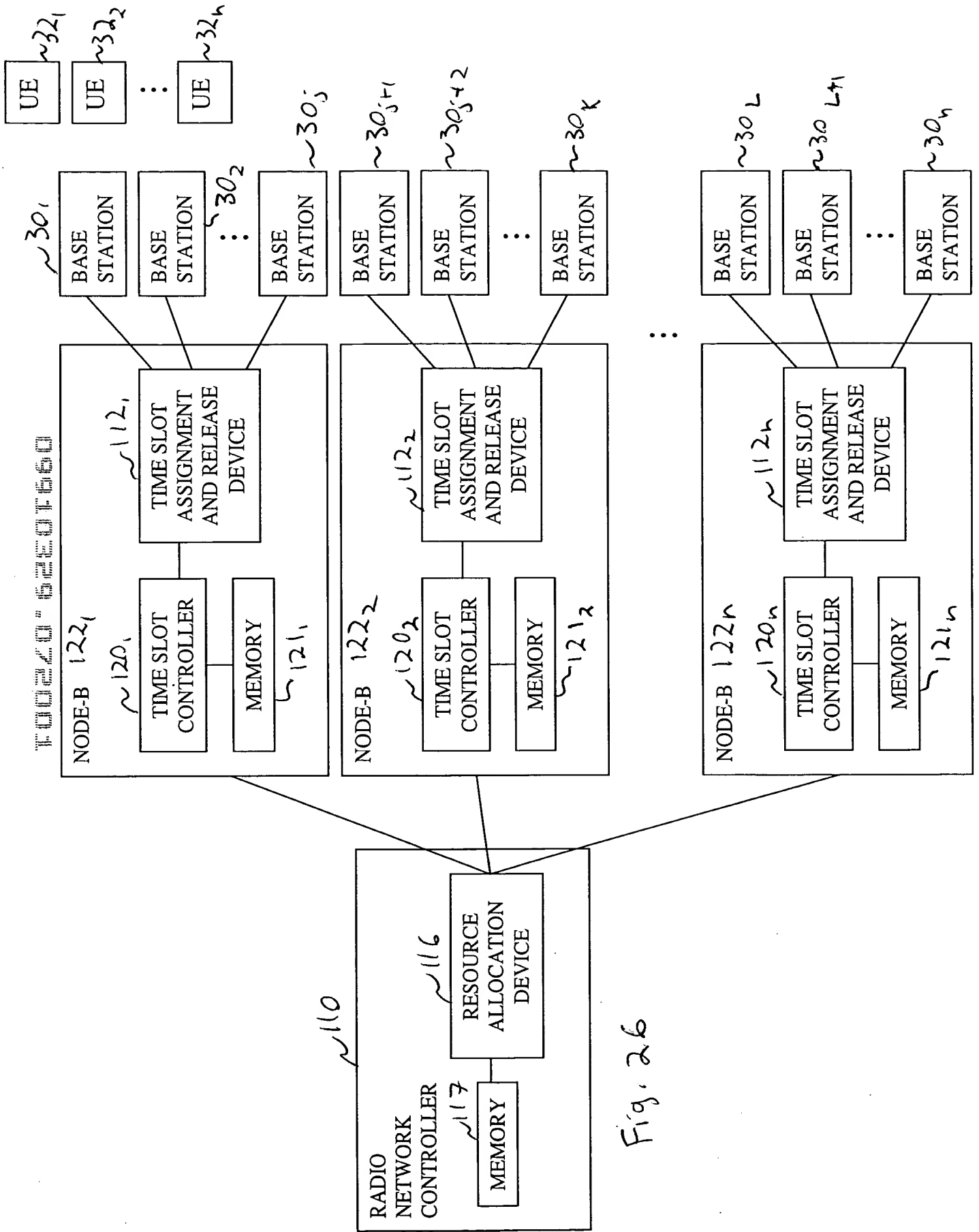


Fig. 26